

# SYSTEM AND METHOD OF A MINIMIZED REPRESENTATION OF A SECTOR VARIABLE-BITS-PER-INCH TABLE

## 5 ABSTRACT OF THE DISCLOSURE

Systems and methods are provided through which a minimized sector variable-  
bits-per-inch table (MSVBPI) is generated during the design of the mass storage device.  
The MSVBPI table maps variable-bits-per-inch parameters to a head and zone. The  
retrieval of parameters is accomplished entirely from the MSVBPI table. Furthermore,  
10 the MSVBPI table is stored on the recording medium of the mass storage device. The  
firmware of the mass storage device is stored in the read-only-memory of the mass  
storage device. During the design of the mass storage device, after an initial compilation  
of the firmware, the firmware does not need to be recompiled when the content of the  
MSVBPI table is changed because the content of the MSVBPI and the firmware do not  
15 affect the content of each other.

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